

# Exploring mechanisms in Ni terpyridine catalyzed C-C cross-coupling reactions-A review

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## Abstract

© 2018 by the authors. In recent years, nickel has entered the stage for catalyzed C-C cross-coupling reactions, replacing expensive palladium, and in some cases enabling the use of new substrate classes. Polypyridine ligands have played an important role in this development, and the prototypical tridentate 2,2':6',2''-terpyridine (tpy) stands as an excellent example of these ligands. This review summarizes research that has been devoted to exploring the mechanistic details in catalyzed C-C cross-coupling reactions using tpy-based nickel systems.

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## Keywords

2,2':6',2''-terpyridine, Catalysis, Cross-coupling, Electrosynthesis, Mechanism, Nickel

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